



## SEQUENCE LISTING

#4

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<120> DNA CODING FOR PROTEIN WHICH CONFERS ON BACTERIUM  
ESCHERICHIA COLI RESISTANCE TO L0-HOMOSERINE AND METHOD  
FOR PRODUCING L-AMINO ACIDS

<130> 0010-1039-0

<140> 09/396,357

<141> 1999-09-15

<150> RU98118425

<151> 1998-10-13

<160> 2

<170> PatentIn Ver. 2.1

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<212> DNA

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tcg atc att tta acg ctg tcg cca ggc tct ggt gca atc aac act atg 640
Ser Ile Ile Leu Thr Leu Ser Pro Gly Ser Gly Ala Ile Asn Thr Met
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acc acc tcg ctc aac cac ggt tat ccg gcc ggt ggc gtc tat tgc tgg 688
Thr Thr Ser Leu Asn His Gly Tyr Pro Ala Gly Gly Val Tyr Cys Trp
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gct tca gac cgg act ggc gat tca tat tgt gct ggt tgg cgt ggg gtt 736
Ala Ser Asp Arg Thr Gly Asp Ser Tyr Cys Ala Gly Trp Arg Gly Val
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Gly Thr Leu Phe Ser Arg Ser Val Ile Ala Phe Glu Val Leu Lys Trp
            65                70                75

gca ggc gcg gct tac ttg att tgg ctg gga atc cag cag tgg cgc gcc 832
Ala Gly Ala Ala Tyr Leu Ile Trp Leu Gly Ile Gln Gln Trp Arg Ala
            80                85                90

gct ggt gca att gac ctt aaa tcg ctg gcc tct act caa tcg cgt cga 880
Ala Gly Ala Ile Asp Leu Lys Ser Leu Ala Ser Thr Gln Ser Arg Arg
            95                100                105

cat ttg ttc cag cgc gca gtt ttt gtg aat ctc acc aat ccc aaa agt 928
His Leu Phe Gln Arg Ala Val Phe Val Asn Leu Thr Asn Pro Lys Ser
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att gtg ttt ctg gcg gcg cta ttt ccg caa ttc atc atg ccg caa cag 976
Ile Val Phe Leu Ala Ala Leu Phe Pro Gln Phe Ile Met Pro Gln Gln
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ccg caa ctg atg cag tat atc gtg ctc ggc gtc acc act att gtg gtc 1024
Pro Gln Leu Met Gln Tyr Ile Val Leu Gly Val Val Thr Thr Ile Val Val
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gat att att gtg atg atc ggt tac gcc acc ctt gct caa cgg att gct 1072
Asp Ile Ile Val Met Ile Gly Tyr Ala Thr Leu Ala Gln Arg Ile Ala
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cta tgg att aaa gga cca aag cag atg aag gcg ctg aat aag att ttc 1120

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Asn His Gly Tyr Pro Ala Gly Gly Val Tyr Cys Trp Ala Ser Asp Arg  
35 40 45  
Thr Gly Asp Ser Tyr Cys Ala Gly Trp Arg Gly Val Gly Thr Leu Phe  
50 55 60  
Ser Arg Ser Val Ile Ala Phe Glu Val Leu Lys Trp Ala Gly Ala Ala  
65 70 75 80  
Tyr Leu Ile Trp Leu Gly Ile Gln Gln Trp Arg Ala Ala Gly Ala Ile  
85 90 95  
Asp Leu Lys Ser Leu Ala Ser Thr Gln Ser Arg Arg His Leu Phe Gln  
100 105 110  
Arg Ala Val Phe Val Asn Leu Thr Asn Pro Lys Ser Ile Val Phe Leu  
115 120 125  
Ala Ala Leu Phe Pro Gln Phe Ile Met Pro Gln Gln Pro Gln Leu Met  
130 135 140  
Gln Tyr Ile Val Leu Gly Val Thr Thr Ile Val Val Asp Ile Ile Val  
145 150 155 160  
Met Ile Gly Tyr Ala Thr Leu Ala Gln Arg Ile Ala Leu Trp Ile Lys

165

170

175

Gly Pro Lys Gln Met Lys Ala Leu Asn Lys Ile Phe Gly Ser Leu Phe  
180 185 190

Met Leu Val Gly Ala Leu Leu Ala Ser Ala Arg His Ala  
195 200 205